

05/21/98
1c588 U.S. PTO

PTO 1449 (modified)	Atty. Docket No. 40121BL	Serial No. 08/834,050
OF REFERENCES CITED BY APPLICANT	Applicant: Pak-Wing Steve Chum et al.	
	Filing Date: 04/11/97	Group 1505

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
BW	AA	3,998,914	12/21/76	Lillis et al.			
	AB	4,405,774	09/20/83	Miwa et al.			
	AC	4,429,079	01/31/84	Shibata et al.			
	AD	4,438,238	03/20/84	Fukushima et al.			
	AE	4,981,760	01/01/91	Naito et al.			
	AF	5,189,106	02/23/93	Morimoto et al.			
	AG	5,206,075	04/27/93	Hodgson, Jr.			
	AH	5,218,071	06/08/93	Tsutsui et al.			
	AI	5,272,236	12/21/93	Lai et al.			
	AJ	5,278,272	01/11/94	Lai et al.			
BW	AK	5,374,700	12/20/94	Tsutsui et al.			

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		Document Number	Date	Country	Class	Sub-class	Translation
BW	BA	CA 2,008,315	07/24/90	CA (Tsutsui et al.)			
	BB	EP 0 447 035	09/18/91	EPO (Tsutsui et al.)			
	BC	WO 90/03414	04/05/90	PCT (Stehling et al.)			
	BD	WO 93/08221	04/29/93	PCT (Lai et al.)			
BW	BE	WO 94/06857	03/31/94	PCT (Hodgson et al.)			

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

BW	C A	Modern Methods of Polymer Characterization, pp. 103-112, (1991) "Measurement of Long-Chain Branch Frequency in Synthetic Polymers", by Alfred Rudin
	C B	The Journal of Chemical Physics, vol. 17, no. 12, December (1949), pp. 1301-1314, "The Dimensions of Chain Molecules Containing Branches and Rings", by Bruno H. Zimm and Walter H. Stockmayer
	C C	Antec 93 - Be In That Number, New Orleans, May 9-13, (1993), vol. II, "Dow Constrained Geometry Catalyst Technology (CGCT): New Rules For Ethylene α -Olefin Interpolymers-Controlled Rheology Polyolefins", pp. 1188-1192, by S. Lai and G.W. Knight
	C D	Journal of Rheology, (1986), pp. 340-341, 344-345, 348-349, 352-353, 356-357, "Wall Slip in Viscous Fluids and Influence of Materials of Construction", by A.V. Ramamurthy
	C E	Rheometers for Molten Plastics, (1982), pp. 97-99, by John Dealy
BW	C F	Polymer Engineering and Science, vol. 17, no. 11, November (1977), pp. 769-774, "Correlation of Low Density Polyethylene Rheological Measurements with Optical and Processing Properties", by M. Shida, R.N. Shroff, and L.V. Cancio

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Number	Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
dw	AA	5,395,471	03/07/95	Obijeski et al.		
	AB	5,395,810	03/07/95	Shamshoum et al.		
	AC	5,408,004	04/18/95	Lai et al.		
dw	AD	5,444,145	08/22/95	Brant et al.		
	AE					
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	Document Number	Date	Country	Class	Sub-class	Translation
dw	BA	WO 94/12568	06/09/94	PCT (Chambon et al.)		
	BB	WO 95/13321	05/18/95	PCT (Farley et al.)		
	BC	WO 93/13143	07/08/93	PCT (Parikh et al.)		
dw	BD	WO 93/03093	02/18/93	PCT (Meka et al.)		
	BE					

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dw	C A	"A Review of High Resolution Liquid ¹³ Carbon Nuclear Magnetic Resonance Characterizations of Ethylene-Based Polymers", <u>IMS-Rev. Macromol. Chem. Phys.</u> , C29(2&3), pp. 201-317, (1989) by James C. Randall
	C B	<u>ACS Symposium Series</u> , no. 142, pp. 94-118, (1980) "Characterization of Long-Chain Branching in Polyethylenes Using High-Field Carbon-13 NMR", by J.C. Randall
	C C	SPE Regional Technical Conference, Quaker Square Hilton, Akron, Ohio, October 1-2, (1985), pp. 107-119, "The Role of Comonomer Type and Distribution in LLDPE Product Performance", by L.D. Cady
	C D	<u>Journal of Polymer Science: Polymer Physics Edition</u> , vol. 20, pp. 441-455 (1982), "Determination of Branching Distributions in Polyethylene and Ethylene Copolymers", by L. Wild, T.R. Ryle, D.C. Knobloch, and I.R. Peat
	C E	<u>Antec 93</u> , pp. 58-62, "Flexomer Polyolefins, A Unique Class of Ethylene Copolymers for Low Temperature Film Applications", by D.C. Eagar, G.E. Ealer, S.A. Bartocci and D.M. Kung
dw	C F	Worldwide Metallocene MetCon '94, May 25-27, (1994), "Improved Processing and Performance Balance of Polyethylene Resins Using Metallocene Catalyst Technology", by Mark A. Wendorf

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sw	CA	Specialty Plastics Conference 1990-The Raw Materials Scenario for PE and PP Film Applications and Markets, December 3-4, "High Value Added Film Using an Olefin Based Elastomer", by M. Tanaka
	CB	Packaging Technology and Engineering, April 1994, pp. 34-37, "Single-Site Catalysts Produce Tailor-Made, Consistent Resins", by David F. Simon
sw	CC	Polyolefin Modification with EXACT™ Plastomers", SPE, Feb. 21-24, 1993, pp. 539-564, by T.C. Yu and G.J. Wagner
	CD	
	CE	
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sw	AA	2,983,704	05/09/61	Roedel	1	1	
	AB	3,179,720	04/20/65	Hillmer	1	1	
	AC	3,231,636	01/25/66	Synder et al.	1	1	
	AD	3,340,328	09/05/67	Brindell et al.	1	1	
	AE	3,491,073	01/20/70	Marinak	1	1	
	AF	3,645,992	02/29/72	Elston	1	1	
	AG	3,914,342	10/21/75	Mitchell	1	1	
	AH	4,205,021	05/27/80	Morita et al.	1	1	
	AI	4,230,831	10/28/80	Sakurai et al.	1	1	
	AJ	4,263,422	04/21/81	Lowery, Jr. et al.	1	1	
sw	AK	4,320,088	03/16/82	Nicco	1	1	

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		Document Number	Date	Country	Class	Sub-class	Translation
sw	BA	GB 1,233,599	05/26/71	GB (Monsanto)	1	1	
	BB	JP 53-75278	07/04/78	JP (Sho)	1	1	
	BC	JP 131516	06/26/84	JP (English Abstract)	1	1	
	BD	JP 62-121709	06/03/87	JP (Tsutsui)	1	1	
sw	BE	WO 87/03610	06/18/87	PCT (Cozewith et al.)	1	1	

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

sw	CA	Research Disclosure 37652, August 1995
	CB	Research Disclosure 36210, June 1994
	CC	Research Disclosure 37644, August 1995
	CD	Plastics World, "LLDPE Blends Perk Up Performance of PE Films, pp. 40-43, December 1982
	CE	MetCon '93, May 26-28, 1993, Houston, Tx, "The Distinguished Features of Metallocene-Based Polyolefins", pp. 235-243, 240, by Akira Todo
sw	CF	EXACT™ Polymers - For Targeted Performance in Film Packaging", product brochure published by Exxon Chemical Company October 1992

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SW	AA	4,330,639	05/18/82	Matsuura et al.			
	AB	4,346,834	08/31/82	Mazumdar			
	AC	4,374,227	02/15/83	Michie, Jr.			
	AD	4,461,873	07/24/84	Bailey et al.			
	AE	4,469,752	09/04/84	Yoshimura et al.			
	AF	4,510,303	04/09/85	Oda et al.			
	AG	4,530,914	07/23/85	Ewen et al.			
	AH	4,542,199	10/17/85	Kaminsky et al.			
	AI	4,659,685	04/21/87	Coleman, III et al.			
	AJ	4,668,752	05/26/87	Tominari et al.			
SW	AK	4,701,432	10/20/87	Welborn, Jr.			

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		Document Number	Date	Country	Class	Sub-class	Translation
SW	BA	EP 0 374 695	06/27/90	EPO (Davis)			
	BB	JP 63-328197	10/10/90	JP (Fujii et al.)			
	BC	EP 0 416 815	03/13/91	EPO (Stevens et al.)			
	BD	EP 0 436 328	07/10/91	EP (Asanuma et al)			
SW	BE	EP 0 503 791	09/16/92	Ali et al.			

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SW	CA	Journal of Polymer Science: Part B: Polymer Physics, "An Analytical Technique for Measuring Relative Tie-Molecule Concentration in Polyethylene", Vol. 29, pp. 1047-1055 (1991) by A. Lustiger and N. Ishikawa
	CB	Journal of Materials Science, "Molecular Topology in Ethylene Copolymers Studied by Means of Mechanical Testing", vol. 23, pp. 415-421 (1988) by R. Seguela and F. Rietsch
	CC	Polymer, "Tensile Drawing Behaviour in a Linear Low-Density Polyethylene: Changes in Physical and Mechanical Properties", Vol. 27, pp. 532-536 (1986) by R. Seguela and F. Rietsch
	CD	Makromol. Chem., Macromol. Symp., "Slow Crack Growth in Polyethylene - A Review", vol. 41, pp. 55-67 (1991) by Norman Brown, Xici Lu, Yan-Ling Huang, and Ruzheng Qian
	CE	Journal of Polymer Science: Part B: Polymer Physics, "Fatigue Crack Propagation in High-Density Polyethylene", vol. 29, pp. 371-388 (1991) by J.T. Yen and J. Runt
SW	CF	Macromolecules, "Sequence and Branching Distribution of Ethylene/1-Butene Copolymers Prepared with a Soluble Vanadium-Based Ziegler-Natta Catalyst", vol. 25, pp. 2820-2827 (1992) by N. Kuroda, Y. Nishikitani, K. Matsuura and N. Ikegami

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Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date If Appropriate
sw	AA	4,752,597	06/21/88	Turner			
	AB	4,770,912	09/13/88	Furrer et al.			
	AC	4,786,688	11/22/88	Thiersault et al.			
	AD	4,789,714	12/06/88	Cozewith et al.			
	AE	4,801,652	01/31/89	Mizutani et al.			
	AF	4,804,714	02/14/89	Olivo			
	AG	4,828,906	05/09/89	Nishimura et al.			
	AH	4,837,262	06/06/89	Jeon et al.			
	AI	4,935,474	06/19/90	Ewen et al.			
	AJ	4,937,299	06/26/90	Ewen et al.			
sw	AK	4,939,217	07/03/90	Stricklen			

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		Document Number	Date	Country	Class	Sub-class	Translation
sw	BA	WO 93/00400	01/07/93	PCT (Biddle et al.)			
	BB	WO 93/03093	02/18/93	PCT (Meka et al.)			
	BC	EP 0 572 034	12/01/93	EPO (Toshimi et al.)			
	BD	JP 53-31229	12/14/93	JP (English Abstract)			
sw	BE	WO 94/00500	01/06/94	PCT (Pannell et al.)			

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sw	CA	Polymer Communications, "Morphological Location of Ethyl Branches in 13C-Enriched Ethylene/1-Butene Random Copolymers", vol. 29, pp. 258-260 September (1988) by D. C. McFaddin, K.E. Russell and E. C. Kelusky
	CB	Journal of Polymer Science: Polymer Chemistry Edition, "The Preparation and Characterization of Homogeneous Copolymers of Ethylene and 1-Alkenes", vol. 22, pp. 1383-1392 (1984) by B.K. Hunter, K.E. Russell, M.V. Scammell and S.L. Thompson
	CC	Polymer Engineering and Science, "Characterizing Polyethylene-Based Blends with Temperature Rising Elution Fractionation (TREF) Techniques", vol. 27, no. 20, pp. 1562-1571, Mid-November (1987) by Eric C. Kelusky, Clay T. Elston and Ron E. Murray
	CD	"Exxpol Technology For Targeted Polymer Performance," (brochure from/by Exxon Chemical Company with an unknown date)
	CE	SPO '93, "Exact Polymers Unique Properties for Value-Added Applications" by F.J. Steininger
sw	CF	

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sw	AA	4,987,212	01/22/91	Morterol et al.	—	—	
	AB	5,001,206	03/19/91	Bashir et al.	—	—	
	AC	5,026,798	06/25/91	Canich	—	—	
	AD	5,028,663	07/02/91	Chung	—	—	
	AE	5,032,651	07/16/91	McDaniel et al.	—	—	
	AF	5,041,501	08/20/91	Shirodkar	—	—	
	AG	5,047,468	09/10/91	Lee et al.	—	—	
	AH	5,055,438	10/08/91	Canich	—	—	
	AI	5,077,255	12/31/91	Welborn	—	—	
	AJ	5,082,902	01/21/92	Gurevitch et al.	—	—	
sw	AK	5,084,540	01/28/92	Albizzati et al.	—	—	

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sw	BA	JP 60-16880	01/25/94	JP (English Abstract)	—	—	
	BB	WO 94/03538	02/17/94	PCT (Peacock)	—	—	
	BC	EP 0 598 626	05/25/94	EPO (Takahashi et al.)	—	—	
	BD	WO 94/17112	08/04/94	PCT (Kolthammer et al.)	—	—	
sw	BE	EP 0 662 989	07/19/95	EPO (Garza et al.)	—	—	

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<i>ew</i>	AA	5,091,228	02/25/92	Fujii et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AB	5,177,147	01/05/93	Spenadel et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AC	5,210,142	05/11/93	Kale et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AD	5,266,392	11/30/93	Land et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AE	5,272,016	12/21/93	Ralph	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AF	5,530,065	06/25/96	Farley et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AG	5,350,807	09/27/94	Pettijohn et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AH	5,376,439	12/27/94	Hodgson et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AI	5,464,905	11/07/95	Tsutsui et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AJ	5,519,091	05/21/96	Tsutsui et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	AK	5,656,696	08/12/97	Yamamoto et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<i>ew</i>	AL	5,663,236	09/02/97	Takahashi et al.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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<i>ew</i>	BA	EP 0 735 090	02/10/96	EPO (Yamamoto et al.)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
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